

FORM PTO-1449 U S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO UC072 001A	APPLICATION NO 09-990.613
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>RECEIVED</i> (USE SEVERAL SHEETS IF NECESSARY) FEB 07 2002		APPLICANT WU et al	
		FILING DATE November 21, 2001	GROUP <i>RECEIVED</i>

U.S. TRADEMARK OFFICE

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>J</i>	6,136,539	10/24/00	Basbaum et al	435	6	02/11/99
<i>J</i>	US 670,747 B1	08/07/01	Nadel et al	424	9.2	08/17/99

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES
<i>J</i>	JP9012473A2	14 01 97	Japan			X
<i>J</i>	WO 99/4127C	19 08 99	PCT			X
<i>J</i>	WO 00/04142	27.01.00	PCT			X
<i>J</i>	WO 01/54685 A1	02.08.01	PCT			X

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
<i>J</i>	7. Bernacki et al., "Mucin Gene Expression during Differentiation of Human Airway Epithelia <i>In Vitro</i> . MUC4 and MUC5B Are Strongly Induced," <i>American Journal of Respiratory Cell and Molecular Biology</i> , 20(4) 595-604 (1999).	
<i>J</i>	8. Chen et al., "Characterization of human MUC5B gene expression in airway epithelium and the genomic clone of the amino-terminal and 5'-flanking region," <i>American Journal of Respiratory Cell and Molecular Biology</i> , 25(5):542-553 (November, 2001).	
<i>J</i>	9. Clavereau et al., "Transfection of various carcinoma cell lines using Effectene™ reagent," in <i>Qiagen News - Customer Application Guide</i> , Issue No. 1 (2000).	
<i>J</i>	10. Davies et al., "Identification of MUC53, MUC5AC and small amounts of MUC2 mucins in cystic fibrosis airway secretions," <i>Biochemical Journal</i> , 344 (Pt 2) (4697):321-330 (1999).	
<i>J</i>	11. Desseyen et al., "Genomic organization of the 3' region of the human mucin gene MUC5B," <i>J. Biol. Chem.</i> , 272(27):16873-16883 (July 4, 1997).	
<i>J</i>	12. Desseyen et al., "Genomic organization of the human mucin gene MUC5B," <i>J. Biol. Chem.</i> , 273(46) 30157-30164 (November 13, 1998).	
<i>J</i>	13. Desseyen et al., "Human mucin gene MUC5B, the 10.7-kb large central exon encodes various alternate subdomains resulting in a super-repeat," <i>The Journal of Biological Chemistry</i> , 272(6) 3168-3178 (February 7, 1997).	
<i>J</i>	14. GenBank Accession No. AF107890, Chen et al., Homo sapiens mucin 5B (MUC5B) gene, partial cds. Released November 22, 2000	
<i>J</i>	15. GenBank Accession No. AJ012453, Vanseuningen, Homo sapiens MUC5B gene proximal 5' flanking region. Released May 3, 2001	
<i>J</i>	16. GenBank Accession No. U67167, Gum et al., Homo sapiens intestinal mucin (MUC2) gene, promoter region and partial cds. Released July 9, 1997	
<i>J</i>	17. GenBank Accession No. X74955, Laine, H. sapiens MUC5B mRNA (clone JER57) for mucin (partial). Released June 12, 1996	
<i>J</i>	18. GenBank Accession No. Z48314, Lesuffleur, H. sapiens mRNA for apomucin. Released August 2, 1995	

EXAMINER <i>J</i>	DATE CONSIDERED <i>4/23/03</i>
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	19. GenBank Accession No Z72496, Laine, H. sapiens MUC5B gene (partial) Released August 20, 1997.
	20. GenBank Accession Number AJ004862, Laine, Homo sapiens partial MUC5B gene, exon 1-29 Released March 10, 2000.
	21. GenBank Accession Number AJ011582, Laine, Homo sapiens MUC5B gene, 5'UTR Released July 14, 2000
	22. Hovenberg et al., "Different mucins are produced by the surface epithelium and the submucosa in human trachea identification of MUC5AC as a major mucin from the goblet cells." <i>Biochem. J.</i> , 318(Pt 1, Vol 17):319-324 (1996)
	23. Hovenberg et al., "MUC5AC, but not MUC2, is a prominent mucin in respiratory secretions." <i>Glycoconjugate Jour.</i> , 13(5):839-847 (1996)
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	25. Kaliner et al., "Pulmonary Perspective Human Respiratory Mucus." <i>American Review of Respiratory Disease</i> , 134(3):612-621 (1986)
	26. Ke et al., "Human bronchial epithelial cells with integrated SV40 virus T antigen genes retain the ability to undergo squamous differentiation." <i>Differentiation</i> , 38(1):60-66 (1988).
	27. Keates et al., "Molecular cloning of a major human gall bladder mucin complete C-terminal sequence and genomic organization of MUC5B." <i>Biochem. J.</i> , 324(Pt 1):295-303 (1997)
	28. Koo et al., "Restoration of the Mucous Phenotype by Retinoic Acid in Retinoid-Deficient Human Bronchial Cell Cultures: Changes in Mucin Gene Expression." <i>American Journal of Respiratory Cell and Molecular Biology</i> , 20(1):43-52 (1999)
	29. Lesuffleur et al., "Differential expression of the human mucin genes MUC1 to MUC5 in relation to growth and differentiation of different mucus-secreting HT-29 cell subpopulations." <i>J. of Cell Science</i> , 106:771-783 (1993)
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	31. Louahed et al., "Interleukin-9 upregulates mucus expression in the airways." <i>Am. J. Respir. Cell Mol. Biol.</i> , 22:649-656 (2000).
	32. Meerzaman et al., "Cloning and Analysis of cDNA Encoding a Major Airway Glycoprotein, Human Tracheobronchial Mucin (MUC5)." <i>Jour. Biol. Chem.</i> , 269(17):12932-12939 (1994).
	33. Offner et al., "The amino-terminal sequence of MUC5B contains conserved multifunctional D domains: Implications for tissue-specific mucin functions." <i>Biochem. Biophys. Res. Commun.</i> , 251(1):350-355 (1998)
	34. Perrais et al., "Aberrant expression of human mucin gene MUC5B in gastric carcinoma and cancer cells: identification and regulation of a distal promoter." <i>J. Biol. Chem.</i> , 276(18):15386-15396 (May 4, 2001).
	35. Pigny et al., "Human Mucin Genes Assigned to 11p15.5: Identification and Organization of a Cluster of Genes." <i>Genomics</i> , 38(3):340-352 (1996).
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	37. Poster Presentation: Chen et al., "Differential mucin gene expression and regulation in cultures of conducting airway epithelial cells." American Thoracic Society / American Lung Association International Conference, San Diego, CA (April 23-28, 1999). Abstract A22 [Poster: 604]
	38. Reid et al., "Developmental Expression of Mucin Genes in the Human Respiratory Tract." <i>Am. J. Respir. Cell Mol. Biol.</i> , 17:592-598 (1997)
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	43. Van Seuningen et al., "Sequence of the 5'-flanking region and promoter activity of the human mucin gene MUC5B in different phenotypes of colon cancer cells," <i>Biochem. J.</i> , 348(Pt. 3):675-686 (June 15, 2000).
	44. Wickström et al., "MUC5B is a major gel-forming, oligomeric mucin from human salivary gland, respiratory tract and endocervix; identification of glycoforms and C-terminal cleavage," <i>Biochem. Jour.</i> , 334(Pt. 3)(14):685-693 (1998).
	45. Wu et al., "Growth and differentiation of conducting airway epithelial cells in culture," <i>European Respiratory Journal</i> , 10(10):2398-2403 (1997).
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